

# Auditory Cortex

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## Recent Publications on Auditory Cortex:



- [Auditory Temporal Acuity Probed with Cochlear Implant Stimulation and Cortical Recording.](#)  
*Cochlear implants stimulate the auditory nerve with amplitude-modulated...*20th November, 2009  
University of California-Irvine.- J Neurophysiol. 2009 Nov 18. ([DOI Direct Link](#))
- [Hierarchical computation in the canonical auditory cortical circuit.](#)  
*Sensory cortical anatomy has identified a canonical microcircuit...*18th November, 2009  
University of California, San Francisco/University of California, Berkeley- Proc Natl Acad Sci U S A. 2009 Nov 16. ([DOI Direct Link](#))
- [Correlating stimulus-specific adaptation of cortical neurons and local field potentials in the awake rat.](#)  
*Changes in the sensory environment are good indicators for behaviorally...*18th November, 2009  
Institute for Cell Biology and Neuroscience, Department of Biological- J Neurosci. 2009 Nov 4;29(44):13837-49. ([DOI Direct Link](#))
- [The neural architecture of discourse compression.](#)  
*Re-telling a story is thought to produce a progressive refinement in the...*17th November, 2009  
Brain Research Institute and Florey Neuroscience Institutes (Austin);- Neuropsychologia. 2009 Nov 12. ([DOI Direct Link](#))
- [Laminar structure of spontaneous and sensory-evoked population activity in auditory cortex.](#)  
*Spontaneous activity plays an important role in the function of neural...*17th November, 2009  
Center for Molecular and Behavioral Neuroscience, Rutgers, The State- Neuron. 2009 Nov 12;64(3):404-18. ([DOI Direct Link](#))
- [Cortical dynamics by layers.](#)  
*Neocortical microcircuits of primary sensory cortices play prominent roles...*17th November, 2009  
Brain Mind Institute, Faculty of Life Sciences, Ecole Polytechnique- Neuron. 2009 Nov 12;64(3):298-300. ([DOI Direct Link](#))
- [Burst stimulation of the auditory cortex: a new form of neurostimulation for noise-like tinnitus suppression.](#)  
*Object Tinnitus is an auditory phantom percept related to tonic and burst...*17th November, 2009  
BRAI2N (Brain Research Center Antwerp for Innovative and Interdisciplinary- J Neurosurg. 2009 Nov 13. ([DOI Direct Link](#))
- [Evidence for hierarchical processing in cat auditory cortex: nonreciprocal influence of primary auditory cortex on the posterior auditory field.](#)  
*The auditory cortex of the cat is composed of 13 distinct fields that have...*13th November, 2009  
Graduate Program in Neuroscience, University of Western Ontario, London,- J Neurosci. 2009 Nov 11;29(45):14323-33. ([DOI Direct Link](#))

- [The synaptic representation of sound source location in auditory cortex.](#)  
*A key function of the auditory system is to provide reliable information...*13th November, 2009  
Department of Neuroscience, Physiology, and Pharmacology, University- J Neurosci. 2009 Nov 11;29(45):14127-35. ([DOI Direct Link](#))
- [A chronotopically organized target-distance map in the auditory cortex of the Short-tailed Fruit Bat.](#)  
*Topographic cortical representation of echo-delay, the cue for...*13th November, 2009  
Goethe-University Frankfurt.- J Neurophysiol. 2009 Nov 11. ([DOI Direct Link](#))
- [Cortical Representation of Interaural Time Difference in Congenital Deafness.](#)  
*Binaural cues are required for localization of sound sources. In the...*13th November, 2009  
Laboratory of Auditory Neuroscience, Department of Neurophysiology and- Cereb Cortex. 2009 Nov 11. ([DOI Direct Link](#))
- [The Fischer 344 rat as a model of presbycusis.](#)  
*Due to the rising number of the aged human population all over the world,...*12th November, 2009  
Institute of Experimental Medicine, Academy of Sciences of the Czech- Hear Res. 2009 Nov 7. ([DOI Direct Link](#))
- [Estrogen receptors in the central auditory system of male and female mice.](#)  
*The estrogen receptors in the central auditory system of male and female...*7th November, 2009  
Department of Physiology & Pharmacology, Karolinska Institute, Stockholm,- Neuroscience. 2009 Nov 16. ([DOI Direct Link](#))
- [Reduced connectivity of the auditory cortex in patients with auditory hallucinations: a resting state functional magnetic resonance imaging study.](#)  
*BACKGROUND: Previous research has reported auditory processing deficits...*7th November, 2009  
Howard Florey Institute, Florey Neuroscience Institutes, Melbourne,- Psychol Med. 2009 Nov 6:1-10. ([DOI Direct Link](#))
- [Bottom-up Driven Involuntary Auditory Evoked Field Change: Constant Sound Sequencing Amplifies, but not Sharpens Neural Activity.](#)  
*The capability to involuntarily track certain sound signals during the...*6th November, 2009  
University of Muenster.- J Neurophysiol. 2009 Nov 4. ([DOI Direct Link](#))

## BioNews Results for Auditory Cortex

- [Auditory verbal hallucinations linked to left superior temporal gyrus function](#)  
*MedWire News: Nov 3 2009 12:54AM Matching: auditory cortex*

## Auditory Cortex Patents:



- 7089927- [System and method for guidance of anesthesia, analgesia and amnesia](#)
- 7239910- [Methods and devices for transcranial magnetic stimulation and cortical cartography](#)
- 7248710- [Embedded internet for hearing aids](#)
- 7253169- [Aza compounds, pharmaceutical compositions and methods of use](#)
- 7261182- [Wide band sound diffuser with self regulated low frequency absorption and methods of](#)

[mounting](#)

- 7276026- [Method and system for detecting and/or predicting cerebral disorders](#)
- 7280870- [Optically-connected implants and related systems and methods of use](#)
- 7299096- [System and method for treating Parkinson's Disease and other movement disorders](#)
- 7302298- [Methods and systems employing intracranial electrodes for neurostimulation and/or electroencephalography](#)
- 7305268- [Systems and methods for automatically optimizing stimulus parameters and electrode configurations for neuro-stimulators](#)
- 7315761- [Electrical stimulation system and method for treating tinnitus](#)
- 7236831- [Methods and apparatus for effectuating a lasting change in a neural-function of a patient](#)
- 7236830- [Systems and methods for enhancing or optimizing neural stimulation therapy for treating symptoms of Parkinson's disease and/or other movement disorders](#)
- 7221981- [Electrode geometries for efficient neural stimulation](#)
- 7112965- [Low-impact noise acquisition magnetic resonance imaging](#)
- 7136418- [Scalable and perceptually ranked signal coding and decoding](#)
- 7146217- [Methods and apparatus for effectuating a change in a neural-function of a patient](#)
- 7147327- [Pupillometer with pupil irregularity detection, pupil tracking, and pupil response detection capability, glaucoma screening capability, intracranial pressure detection capability, and ocular aberration measurement capability](#)
- 7149320- [Binaural adaptive hearing aid](#)
- 7153883- [Carboxylic acids and carboxylic acid isosteres of N-heterocyclic compounds](#)
- 7181021- [Apparatus for acoustically improving an environment](#)
- 7209788- [Closed loop brain machine interface](#)
- 7212851- [Microstructured arrays for cortex interaction and related methods of manufacture and use](#)
- 7215122- [Phantom for production of controllable fMRI signal](#)
- 7333963- [Cognitive memory and auto-associative neural network based search engine for computer and network located images and photographs](#)
- 7338455- [Method and apparatus for diagnosing schizophrenia and schizophrenia subtype](#)
- 7565200- [Systems and methods for selecting stimulation sites and applying treatment, including treatment of symptoms of Parkinson's disease, other movement disorders, and/or drug side effects](#)
- 7567842- [Housing providing an electrical stimulation lead contact in an implantable stimulation device](#)
- 7572234- [EEG feedback controlled sound therapy for tinnitus](#)
- 7577481- [Methods and apparatus for effectuating a lasting change in a neural-function of a patient](#)
- 7582062- [Methods of neural centre location and electrode placement in the central nervous system](#)
- 7591779- [Adaptation resistant anti-stuttering devices and related methods](#)
- 7603174- [Stimulation of the amygdalohippocampal complex to treat neurological conditions](#)
- 7613519- [Peripheral nerve stimulation to treat auditory dysfunction](#)
- 7613520- [Spinal cord stimulation to treat auditory dysfunction](#)
- 7618450- [Implantable hearing system](#)
- 7565199- [Methods for treating and/or collecting information regarding neurological disorders, including language disorders](#)
- 7557574- [Imaging method based on fractal surface-filling or space-filling curves](#)
- 7553288- [Sound and vibration transmission pad and system](#)
- 7353064- [Systems and methods for enhancing or optimizing neural stimulation therapy for treating symptoms of movement disorders and/or other neurologic dysfunction](#)
- 7372306- [Method and apparatus for stability control using fast excitation in circuits having elements with negative differential resistance](#)
- 7392079- [Neurological signal decoding](#)
- 7400927- [Method and system for psychological treatment by brain stimulation of the psychologically disordered object](#)
- 7412426- [Neural networks with learning and expression capability](#)
- 7437196- [Systems and methods for selecting stimulation sites and applying treatment, including treatment of symptoms of Parkinson's disease, other movement disorders, and/or drug side effects](#)

- 7471974- [Method for planning stimulation of hyper/hypometabolic cortical areas](#)
- 7483747- [Systems and methods for enhancing or affecting neural stimulation efficiency and/or efficacy](#)
- 7505902- [Discrimination of components of audio signals based on multiscale spectro-temporal modulations](#)
- 7539543- [Feedback method for deep brain stimulation with detection of generalized efference copy signals](#)
- 7620456- [Systems and methods for reducing the likelihood of inducing collateral neural activity during neural stimulation threshold test procedures](#)

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